

Amendments to the Claims

This listing of claims replaces all prior versions of the claims in the application:

1. (Currently Amended) A display device comprising:
 - a light switching unit comprising an array of pixels each operable to vary the transmission of light therethrough; and
 - a backlight comprising a first series of [linear] regions of organic light-emissive material having a first emission colour and a second series of [linear] regions of organic light-emissive material having a second emission colour, each [linear] region of organic material being located so as to lie behind a plurality of pixels of the array in the viewing direction for backlighting those pixels; and
 - at least one of the regions of organic light-emissive material being formed by a process of ink-jet deposition; and,
 - a structure for spatially and/or spectrally narrowing light emission from at least one of the regions of light-emissive material, the structure comprising an interference structure, a cavity structure and/or a micro cavity structure.
2. (Original) A display device as claimed in claim 1, wherein each region of organic light-emissive material is formed by a process of ink-jet-deposition.
3. (Currently amended) A display device as claimed in claim 1 [or 2], wherein the backlight comprises a third series of regions of organic light-emissive material having a third emission colour.
4. (Original) A display device as claimed in claim 3, wherein each region of organic light emissive material having one emission colour is spaced from the next such region by at least regions of organic light-emissive material having both of the other emission colours.

5. (Currently amended) A display device as claimed in ~~any preceding~~ claim 1, wherein each region of organic light-emissive material is formed by means of ink-jet deposition of material into a groove.
6. (Original) A display device as claimed in claim 5, wherein the groove is defined by regions of electrically insulating material.
7. (Currently amended) A display device as claimed in ~~any preceding~~ claim 1, wherein the backlight comprises electrodes located on either side of the light-emissive material.
8. (Original) A display device as claimed in claim 7, wherein at least one of the electrodes is light transmissive.
9. (Currently amended) A display device as claimed in claim 7 ~~or 8 as dependant on claim 6~~, wherein parts of at least one of the electrodes overlap parts of the insulating material and lie in front of those parts of the insulating material in the viewing direction.
10. (Currently amended) A display device as claimed in ~~any of claims 7 to 11~~ claim 7, comprising conductive material located in contact with an electrode to lower the resistance across that electrode.
11. (Original) A display device as claimed in claim 10, wherein the said conductive material comprises a metal or an alloy.
12. (Currently amended) A display device as claimed in claim 10 ~~or 11 as dependant on claim 5~~, wherein the said regions of conductive material at least partially overlap the insulating material.

13. (Currently) A display device as claimed in ~~any of claims 7 to 12~~ claim 7, wherein at least one of the electrodes is patterned to permit independent control of each series of light-emissive regions.

14. (Original) A display device as claimed in claim 13, wherein only one of the electrodes is patterned to permit independent control of each series of light-emissive regions and the other electrode is common to all the light-emissive regions.

15. Cancelled.

16. Cancelled.

17. (Currently amended) A display device as claimed in ~~any preceding~~ claim 1, comprising an optical colour filter arranged for receiving and filtering light emitted from at least one of the regions of light-emissive material.

18. (Currently amended) A display device as claimed in ~~any preceding~~ claim 1, wherein the light switching unit is a liquid crystal unit.

19. (Currently amended) A display device as claimed in ~~any preceding~~ claim 1, wherein the array of pixels is an orthogonal array.

20. (Currently amended) A display device as claimed in ~~any preceding~~ claim 1, wherein each region of organic light-emissive material is formed by means of ink-jet deposition of a solution of the organic light-emissive material.

21. (Currently amended) A display device as claimed in ~~any preceding~~ claim 1, wherein the organic material is a polymer.

22. (Currently amended) A display device as claimed in ~~any preceding~~ claim 1, wherein the organic material is precursor material.

23. (Currently amended) A display device as claimed in ~~any preceding~~ claim 1, comprising a display control unit coupled to the light switching unit and the backlight and operable to address synchronously each region of organic material together with the pixels of behind which that region lies.

24. (Original) A display device comprising:

a light switching unit comprising an array of pixels each operable to vary the transmission of light therethrough; and

a backlight comprising a first series of linear regions of organic light-emissive material having a first emission colour and a second series of linear regions of organic light-emissive material having a second emission colour, each linear region of organic material being located so as to lie behind a plurality of pixels of the array in the viewing direction for backlighting those pixels; and

at least one of the linear regions of organic light-emissive material being formed by a selective deposition process.

25. (Original) A method for forming a light-emissive unit of a display device, the display device having a light switching unit comprising an array of pixels each operable to vary the transmission of light therethrough, the method comprising the steps of:

forming a series of grooves on a substrate;

depositing by means of ink-jetting in some of the grooves a first linear region of organic light-emissive material having a first emission colour;

depositing by means of ink-jetting in others of the grooves a second linear region of organic light-emissive material having a second emission colour; and

locating the grooves such that the light-emissive material in each groove lies behind a respective plurality of pixels of the array in the viewing direction for backlighting those pixels.

26. Cancelled.

27. Cancelled.

28. (New) A method for forming a display device having a plurality of pixels underlain by a single light-emissive region of organic light-emissive material, the method comprising forming the single light-emissive region by ink-jet printing.

29. (New) A method as claimed in claim 28, wherein the region is formed by drop-on-demand ink-jet printing.

30. (New) A method as claimed in claim 28, wherein the region is formed by depositing material that is to form the region in a differential wetting formation to cause the ink-jetted material to bead up into a desired formation.

31. (New) A method as claimed in claim 28, wherein the region is formed by depositing material that is to form the region in a groove.